

Appl. No. 10/785,995
Preliminary Amendment

Docket No. MEI-102

Amendments to the Abstract:

Please amend the Abstract as shown on the following page:

ABSTRACT OF THE DISCLOSURE

The object of the present invention is to improve an access efficiency in a distributed environment. Replication and migration of an information resource in a widely-distributed environment is performed based on an access history, such as access frequency and information for identifying an accessor in the widely-distributed environment. When a user "foo" accesses a file "file_1a" stored in a first storage node SN1 under the control of a first control node CN1 from a client CLN3 via a second control node CN3 as shown by the solid line arrow in the figure, a record of the access is accumulated in an access history of the first control node CN1. An access history management device periodically collects access histories from the control nodes. If the access history of the first control node CN1 refers to the access history and detects the indicates frequent accesses from the second control node CN3, it, the access history management device may send a change instruction to the first control node to replicate or migrate replicates or migrates the file "file_1a" to a second storage node SN3 controlled by the second control node CN3 as shown by the bold line arrow. The rReplication is performed if another device has also accessed the file at the first control node. Otherwise, the migration is performed.